

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF THE CLAIMS:

1. (Currently amended) A system for displaying a graphic image of interest based on compressed graphic image data that include compressed data for the graphic image of interest, said system comprising:

a memory;

means for storing the compressed graphic image data in the memory comprising a linked list in the memory, said linked list including a plurality of nodes, wherein each node comprises a flag field for flagging the node as unused if the node does not include compressed graphic image data for the graphic image of interest;

means for selectively decompressing a portion of said compressed graphic image data as stored in the memory based on a selected coverage section of the graphic[[al]] image data, said portion including only relevant data corresponding to the graphic image of interest; and

display means for displaying the graphic image of interest based exclusively on the portion of the compressed graphic image data as decompressed.

2. (Canceled).

3. (Currently amended) The system for displaying a graphic image of interest as in Claim 1[[2]], wherein said means for storing the compressed graphic image data in the

~~linked list in the~~ memory further includes means for storing the compressed graphic image data in a node in the linked list.

4. (Canceled).

5. (Currently amended) The system for displaying a graphic image of interest as in Claim 3 [[4]], wherein said means for storing the compressed graphic image data in a node in the linked list further includes:

means for determining if any nodes in the linked list are flagged as unused, and  
means for replacing compressed graphic image data in a node flagged as unused, if any in the linked list, with the compressed graphic image data that include compressed data for the graphic image of interest.

6. (Previously presented) The system for displaying a graphic image of interest as in Claim 5, wherein said means for storing the compressed graphic image data in a node in the linked list further includes means for adding to the linked list a node for storing the compressed graphic image data if no nodes in the linked list are flagged as unused.

7. (Canceled).

8. (Previously presented) The system for displaying a graphic image of interest as in Claim 6, wherein said display means includes means for generating a graphic image based on the portion of the compressed graphic image data as decompressed.

9. (Currently amended) A method for displaying a requested graphic image from data included in a compressed graphic image data file, said method including the steps of:

loading the file into one of a plurality of nodes of a linked list in a memory, wherein each node comprises a flag field;

decompressing a portion of the file as loaded into the memory, said portion including only relevant data for the requested graphic image based on a selected geographical region;

sending the data for the requested graphic image from the portion of the file as decompressed to a frame buffer; and

generating the requested graphic image on a display device based exclusively on the data as decompressed and which is sent to the frame buffer.

10. (Canceled).

11. (Currently amended) The method for displaying a requested graphic image from data included in a compressed graphic image data file as in Claim 9 ~~[[10]]~~, said method further including the step of flagging, using the flag field, the node as unused[[,]] if the node does not include compressed graphic image data for the requested graphic image ~~one or more nodes that do not include the file.~~

12. (Currently amended) The method for displaying a requested graphic image from data included in a compressed graphic image data file as in Claim 11, wherein the step of loading the file into one of a plurality of nodes ~~a node in a linked list in the memory~~ further includes the steps of:

determining if any nodes in the linked list are flagged as unused, and

loading the file into a node flagged as unused, if any in the linked list.

13. (Currently amended) The method for displaying a requested graphic image from data included in a compressed graphic image data file as in Claim 12, wherein the step of loading the file into one of a plurality of nodes ~~a node in a linked list in the memory~~ further includes the step of adding to the linked list a node for storing the file if no nodes in the linked list are flagged as unused.

14. (Currently amended) A method for displaying geographic images from compressed geographic image data files stored on a storage device, said compressed geographic image data files including a file that includes compressed data for a first area of interest, said method including the steps of:

receiving a request for the first area of interest;

loading the file that includes compressed data for the first area of interest from the storage device into one of a plurality of nodes of a linked list in a memory, wherein the compressed data includes overhead data that defines a geographical extent of the file, wherein the overhead data includes latitude and longitude vertices, wherein each node comprises a flag field;

decompressing a portion of the file as loaded into memory based on the received request for the first area of interest, said portion including data corresponding to the first area of interest;

sending the data for the portion of the file as decompressed to a frame buffer; and

generating a geographic image for the first area of interest on a display device based on the data in the frame buffer.

15. (Canceled).

16. (Currently amended) The method for displaying geographic images as in Claim 14 ~~[[15]]~~, said method further comprising the step of flagging, using the flag field, as unused~~[[,]]~~ nodes in the linked list that do not include compressed data for the first area of interest.

17. (Currently amended) The method for displaying geographic images as in Claim 16, wherein the step of loading the file ~~into a node in a linked list~~ includes the steps of:  
determining if any nodes in the linked list are flagged as unused, and  
loading the file into a node flagged as unused, if any in the linked list.

18. (Currently amended) The method for displaying geographic images as in Claim 17, wherein the step of loading the file ~~into a node in a linked list~~ includes the step of adding to the linked list a node for storing the file if no nodes in the linked list are flagged as unused.

19. (Canceled).

20. (Currently amended) The method for displaying a graphic image of interest ~~geographic images~~ as in Claim 1, wherein the compressed data includes overhead data that defines the graphic ~~geographical~~ image data and includes latitude and longitude vertices.

21. (Currently amended) A system for displaying a graphic image of interest, comprising:  
means for storing the compressed graphic image data in the memory comprising a linked list in the memory, said linked list including a plurality of nodes, wherein each node comprises a flag field for flagging the node as unused if the node does not include compressed graphic image data for the graphic image of interest;

means for selectively decompressing a portion of said compressed graphic image data in a tile as stored in the memory based on a selected coverage section of the graphic image data; and

display means for displaying the graphic image of interest based exclusively on the portion of the compressed graphic image data as decompressed.